

March 31, 2014

Raylene Stanton
Arizona Public Service
2200 E Huntington Dr.
Flagstaff, Arizona
86004

Dear Ms. Stanton,

The Hopi Tribe would like to request a quote to construct 15 miles of 3-Phase overhead power transmission line on the Hopi Reservation. Please see the attached map for the likely routing of the power line extension, which generally parallels BIA route 4. The attached map assumes that APS will be extending 3-Phase power from the area of the Hopi Cultural Center at Second Mesa, and parallel BIA route 4, on the East side of the paved road.

Please provide quotes for the following:

- 2 Megawatt load, with three electric service drops at 480 volts (300, 2000, and 2000 amps), 14.1 total miles of primary transmission line;
- 3 Megawatt load, with four electric service drops at 480 volts (300, 2000, 2000, and 2000 amps), 15.3 total miles of primary transmission line;
- 9 Megawatt load, with four electric service drops at 480 volts (300, 2000, 2000, and 2000 amps), 15.3 total miles of primary transmission line.

Two megawatts of load are expected immediately, as the power line extension will supply power to two newly drilled community water wells and one water booster station. The pump motors used in the project are expected to be two 100 hp motors, two 60 hp motors, and two 15 hp motors. All pump motors are expected to be Franklin Electric, 3-Phase, 460 volt. Locked rotor amps for the motors are 1,211 amps, 658 amps, and 133 amps, respectively (2011 Franklin Electric submersible motor manual).

A third well may be brought on line in the future with one 100 hp motor and one 60 hp motor, increasing the total load by approximately one megawatt, for a total of three megawatts.

A master planned community, known as Tawa'ovi, is also under development by the Hopi Tribe, in the same area, and at full build-out would have a maximum load of six megawatts, for a total of nine megawatts of load.

Please confirm the voltage of the primary power transmission line. Transmission lines of 14.5 kV are not required to obtain formal rights-of-way, per 25 CFR 169.22, and only require a

service line agreement. Please include the cost of any required service line agreements or right-of-way in your quote.

Please also provide a proposed schedule of the major items required to complete the transmission line, including: estimating, design, environmental surveys and clearances, service line agreements, construction, etc., and a projected completion date.

Please contact _____ at _____, or Adam Hughes, P.E., at [HYPERLINK "mailto:adam.hughes@ihs.gov"], if you have any questions.

Sincerely,

Tribal Official
Hopi Tribe

cc: Lynette Pollari, Thompson + Pollari
George Mase, Hopi Water and Energy Commission
Bill Bettenberg, Homer Law
Lionel Puhuyesva, Hopi Water Resources Director
Adam Hughes, P.E., Indian Health Service
Robert Lorenz, P.E., Indian Health Service